

September 2020 – Volume 21 Issue 1

# RIDBA JOURNAL

The Premier Rural and Industrial Building Magazine



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## A Word from the Editor

### Getting the Year Back on Track

As we come towards the end of the RIDBA year, it is the time when the Health & Safety Executive (HSE) releases its annual figures for work-related injuries and how they are spread across the different industrial sectors. It may come as no surprise that construction and agriculture remain at the top of the list, recording the highest across the sectors. Construction is one of the few industry sectors which saw an increase in the number of fatal injuries to workers in 2019/20, with the number of deaths in 2019/20 (40) above the 31 seen in the previous year. In Agriculture, forestry and fishing the number of fatal injuries in 2019/20 fell to the lowest level on record (20), though the sector still accounts for around 20% of all worker deaths. The full article is on page 9. Working to reduce these figures remains a priority for RIDBA and we will continue working with our stakeholders to raise awareness and offer guidance where it is needed.

As we start to find a new normal way of life, we are excited to announce that two key RIDBA events have now been rescheduled. The RIDBA Industry Day originally scheduled for April 2020 will now take place on 22 April 2021 at the Abbey Hotel in Malvern. The venue allows us to adhere to social distancing, whilst still being able to come together to hear from key industry speakers and share your latest issues and concerns. Members will receive information on how to book places in the next couple of weeks.

We are delighted to announce the launch of the 2021 RIDBA Building Awards and we are excited to see the projects that members have been working on for the last couple of years. The winners of the Awards will be announced at a black-tie dinner in September 2021 with the venue to be announced shortly. It has been a challenging year so far, giving even more reason for members to submit their best projects. More

about how to enter the Awards and get involved can be found in the RIDBA news on page 4.

As mentioned above, we are about to enter a new year for RIDBA (1 October) so members should have received information about how to renew your subscription. RIDBA has been working hard over the last few months to provide members with all the support they need to continue running their businesses and the feedback we have received has been much appreciated.

On pages 14-15, RIDBA Technical Consultant, Martin Heywood, elaborates on his previous article which discussed how to select the correct steel grade, now focussing on how to achieve this. Members can contact Martin on any technical query so please remember to take advantage of this service. On pages 6-7, our Livestock Consultant, Jamie Robertson looks at the importance of natural light for livestock and whether it can add value to building design.

We cannot forget that the end of the Brexit transition period is approaching, and Build UK touches upon this, along with a number of other key updates, in their article on page 22.

We always welcome feedback, so please let us know if you have any comments or suggestions on how we can continue to improve RIDBA. You, the members, make RIDBA what it is, and collectively we can all work together to shape the future of the rural and industrial buildings industry.

Finally, we are keen to receive good news stories from members, which you will always find towards the back of this publication, so please keep in touch; either call on **0844 249 0043** or email **Debbie.Iley@ridba.org.uk**.

*Debbie Iley, Trade Association Director*

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## The RIDBA Building Awards – Showcasing the Best in Rural and Industrial Buildings

The RIDBA Building Awards are the only Awards that recognise the very best in rural and industrial buildings and is the perfect opportunity for members to showcase their best projects.

This year, the competition will run from 1 September 2020 to 31 March 2021 and thereafter a selection of projects will be short-listed. In September 2021, the winners will be announced at a dedicated Awards Ceremony. A range of criteria, also listed below, are taken into consideration by the independent judging panel.

### What the Awards are about

The Awards, which started in 2013 and take place every two years, aim to recognise and reward companies for demonstrating excellence within their industry. The Awards are open exclusively to RIDBA Members and suppliers, architects and specifiers working with RIDBA Members.

The competition aims to cover the full spectrum of the industry that RIDBA represents and entries will therefore be accepted in the following categories:

**Rural – Cattle, Equestrian, Captive (zoo) and Domestic**

**Industrial – Light, Medium or Large**

**Other – Retail, Manufacturing, Leisure, Education and MOD**

**Training Award – Schemes /Projects or Managers and Apprentices**

Depending on the entries we receive, the categories may be broken down further.

### Sponsorship opportunities

It is anticipated that over 100 guests from across the supply chain will attend the event, offering an excellent opportunity to be associated with best practice in the sector and raise your profile amongst the key players in the industry, including clients, contractors, material suppliers and service providers.

Sponsorship of the RIDBA Building Awards is also a great way to gain recognition amongst decision makers and experts in your sector. There are different packages available. Please contact [Debbie.lley@ridba.org.uk](mailto:Debbie.lley@ridba.org.uk) for more information.

### Rules of entry

1. The RIDBA Building Awards are free to enter.
2. All entries must be received by RIDBA by Wednesday 31 March 2021 at 5:00pm. Entries received after this date will not be considered.

3. Entries must contain all information as set out on this form.
4. Entries can be submitted online or by hard copy in the post.
5. There is no limit on the number of entries, but a separate form must be used for each individual project.
6. The Awards are open to RIDBA members only.
7. Projects must be in the UK or the Republic of Ireland.
8. Projects should have a completion date between 1 December 2018 and 28 February 2021.
9. Projects must have the approval of all parties involved in the project including the building owner if required.
10. Projects must have not been previously entered for the RIDBA Awards.

For full details please see the Entry Form that has been issued to all members. If you have not received an Entry Form please contact [admin@ridba.org.uk](mailto:admin@ridba.org.uk).

### Criteria for Entry

When submitting your entry, although they will not apply to all projects, we recommend that you take the following criteria into consideration:

- Degree of Difficulty (complexity of details)
- Workmanship
- Problem-solving (e.g. coping with constraints)
- Contribution to the Built Environment (value to the local area)
- Environmental Qualities (e.g. conservation of heat/power, use of natural light, “green” materials, reclaimed or locally sourced materials)
- Aesthetics (visual impact, appearance)
- Meeting Targets (e.g. finished to budget and on time).

### Why enter

- Secure a competitive edge over your peers
- Be recognised for your achievements
- Get free PR in industry newsletters and publications
- Benchmark your work against your competitors
- Raise your company profile.



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## Light: Adding Value to a Steel Frame

Design guidance on lighting for livestock buildings has remained rudimentary for years. BS5502: part 40, (1990) states that natural lighting should be provided for cattle where possible, with supplementary artificial lighting where appropriate. Target light levels recommend 50 lux as standard service illumination and 300 lux for inspection. Similar guidance is given for sheep and pig buildings but with the comment that reproduction efficiency in sows is particularly sensitive to changes in day length (photoperiod). Knowledge of lighting requirements for poultry is more advanced than for other species, but even so the gap between what is required and what is delivered inside a building can be miles apart.

Lighting is an area where it is possible to add value to building design, but sales will only come if the added cost of added natural or artificial light can be justified by clear welfare/health/production

benefits. The potential for getting better lighting control into livestock buildings is good because the baseline of knowledge is low, and the tools to provide on-site awareness are now very low cost.

The RIDBA Farm Buildings Handbook suggests 10-15% of the roof area as rooflights and mentions that whilst there are commercial pressures that support more rooflights, attention needs to be paid to solar gain. There was a trend in animal welfare dialogue 20 years ago that suggested that more natural light equalled more welfare benefits, and therefore that more rooflights equates to an improvement, but the facts are different. There are considerable benefits to be gained by “adequate lighting” but the negative impact of >10% rooflights on adult cattle kept inside in the summer months in the UK can have a negative influence on feed intakes and therefore yield, on the prevalence of environmental





mastitis, and on financial returns. The design requirements are to take what is known, not opinion, and apply it to new and existing buildings.

The value of a controllable lighting system for cattle is based on clear scientific data that has shown that dairy cow fertility and milk yields are improved by a regime of 16 hours light, minimum 6 hours dark, per day. Furthermore, 'light' is >200 lux and 'dark' is <20 lux. Light meters cost £20-£30 and are simple to use, but I have never been on a farm where they are used by either the farmer or vets to solve problems. The facts are simple; incident light has biological impacts; light has quality and duration and can be measured; and nowhere in the UK has 16 hours of daylight 365 days a year. We need better lighting systems.

A lighting system that delivers minimum and maximum light levels across all the relevant floor area of a livestock building, automatically (remove human interference), will undoubtedly cost more than a typical minimum farm building lighting system. But consider the benefits: if milk yields increase by 3% as a result of a 16 h >200lux: 6 h <20 lux lighting regime, a 300 cow herd producing 10,000 l per year would increase income by £22,500 p.a. The automation of lighting is essential, because dry cows, those resting in the last 60 days of pregnancy, benefit from a reduced photoperiod of 8 h light, 16 dark which sees an improvement in immune function, a positive health benefit, and improved milk yield in the following lactation. An efficient livestock unit will have different light regimes according to the physiological needs of the different classes of animals. Natural light might have a good cost benefit ratio, but nowhere in the UK can natural light provide 16 hours at 200 lux inside a building. We need to sell the benefits of control.

Scientific studies looking at light regimes and young cattle are few, but unsurprisingly the results are similar to those seen in adult cattle. One study recorded a significant increase in growth rates from birth to 56 days, associated with increased dry feed intake in calves exposed to 600 lux on an 18 h light, 6 h dark photoperiod per day compared with calves on a 10h light, 14h dark photoperiod. A further study has shown a similar increase in calf feed intakes and a reduction in diarrhoea compared to calves on a shorter light period, with a system of 12 hours natural light supplemented with timed artificial light giving approximately 415 lumens at calf eye level. Calves on the longer lighting regime reached weaning weight quicker than those on the other treatments with no significant difference in total concentrate intakes and gave a 20% reduction in costs to weaning as a result of reduced labour, milk and medication costs. A study of calf facilities on 38 commercial farms reported an average 805 lux at the feeder, with a range of 9 to 20,000, and slightly higher at the calf resting area. There is profit for everyone in improving poor lighting systems.

The poultry industry has led the way on improved lighting systems for health and productivity gains, although application of knowledge on light quality and automated regimes still has market opportunity in the commercial sector. LED lighting systems may cost more to install than conventional fluorescent systems, but the ability to provide good light distribution produces an optimal distribution of birds across the floor, which minimises vice and health issues caused when birds congregate in preferred light areas. Equal light distribution minimises shadow formation which can impact on bird behaviour. LEDs are easy to dim and therefore provide a gradual change from 'light' to 'dark', and also provide high-frequency lighting. Poultry perceive light frequency below 160 hertz as a series of flashes; conventional fluorescent lighting may have a frequency of 50 hertz and will not provide a stable light environment.

There is a good future in light for livestock. Recent work has shown significant increases in Vitamin D3 content of milk from cows exposed to 30 min/d of UV for 12 weeks, which suggests that the wavelength of light is an area that should be investigated with regard to animal health. The impact of natural light on hygiene issues is mildly understood, for example with reference to the survival rate of airborne viruses and bacteria, and our ability to artificially provide lighting benefits will continue to increase. We do however need to keep an eye on potential negative issues. Light pollution in rural areas can and should be addressed at the design stage, not at a planning enquiry. Light fittings and maintenance should always acknowledge health and safety issues in an industry that has a poor record and attitude to such areas. And don't forget solar gain; rooflights are excellent for the winter period but can be destructive in the summer. Hot cows don't work. Keep cows cool, buy a light meter, and use it to create better buildings.



Jamie is an Honorary Research Fellow at the University of Aberdeen, and has worked in the area of environment and animal health for 35 years. Jamie is available to RIDBA members for discussion and guidance on matters related to building design and animal health.

Jamie Robertson. Livestock Management Systems Ltd.  
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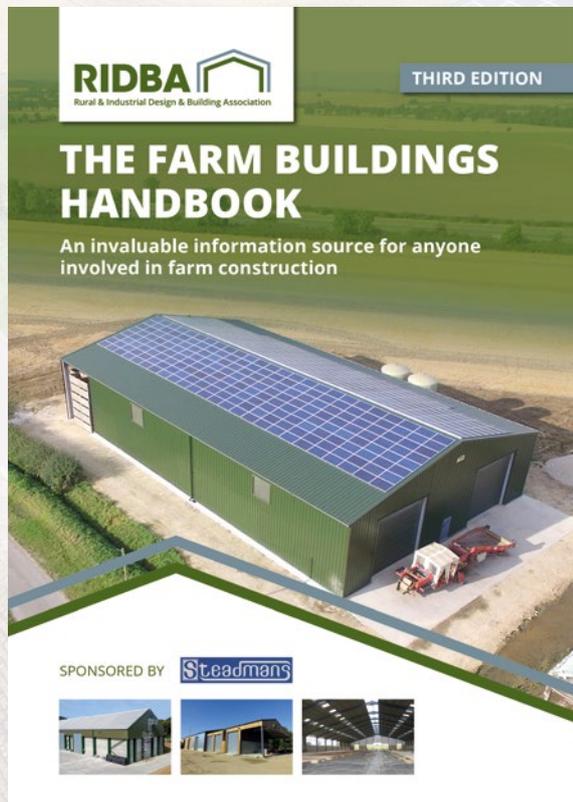
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## Industry News

Image courtesy of Yorkshire Steel Buildings (Holdings) Ltd

# HSE Annual Workplace Fatal Injury Statistics Released

The report from Health and Safety Executive (HSE) provides headline numbers on workplace fatal injuries that were reported to enforcing authorities in 2019/20. It includes both fatal injuries to workers and to members of the public, though numbers of deaths to members of the public do not include those that occurred in Local Authority enforced workplaces for 2019/20. The 2019/20 figures are currently provisional and will be finalised in July 2021 to take account of any necessary adjustments.

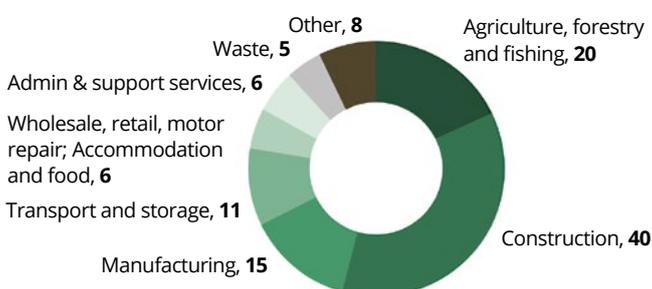
Fatal injuries are thankfully rare events. There is a degree of chance and randomness to the annual count resulting in an element of natural variation from one year's count to the next. To allow for this natural variation, alongside figures for 2019/20, this report also presents the annual average estimate for the five years 2015/16-2019/20, which reduces the effect of year-on-year fluctuations and gives a more stable current picture.

The figures make up part of a long running series enabling both short and long-term comparisons of change. The information includes only those cases of fatal injury that the enforcing authorities have judged as meeting the reporting criteria for workplace injuries as set out in the Reporting of Injuries, Diseases and Dangerous Occurrences Regulations (RIDDOR).

A total of 111 workers were killed at work in Great Britain in 2019/20, a decrease of 38 from the previous year and is the lowest annual number on record. It is difficult to assess what impact the current COVID-19 pandemic has had on the annual number of deaths. Statistics on output of the UK economy show that COVID-19 had a large impact on output of the UK economy in March, but also anecdotal evidence of some small effects in February too. The number of workers killed at work was also lower in both these months compared to recent years though, in statistical terms, numbers are small and subject to fluctuation.

There are two ways of looking at fatality numbers. The first is to look at the absolute count. On this basis, Construction and Agriculture, forestry and fishing tend to come out worst as they account for the greatest number of fatalities each year.

The number of fatal injuries in 2019/20 for many of the main industry



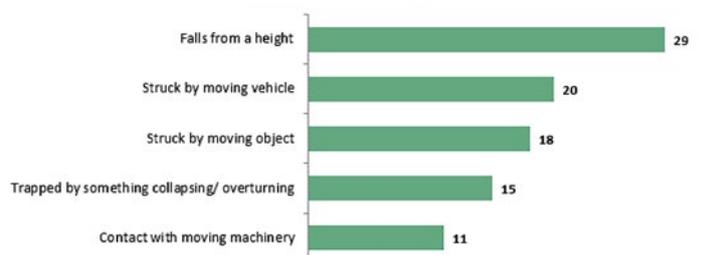
sectors is lower than compared with the annual average over the last five years. However, numbers can be prone to year-on-year fluctuations.

Construction is one of the few industry sectors which saw an increase in the number of fatal injuries to workers in 2019/20, with the number of deaths in 2019/20 (40) above the low of 31 seen in the previous year. However, annual numbers have fluctuated in recent years. Over the last five years, the number of deaths has ranged between 31 and 47, with a five-year average of 37 deaths per year. In Agriculture, forestry and fishing the number of fatal injuries in 2019/20 fell to the lowest level on record (20), though the sector still accounts for around 20% of all worker deaths.

Over three-quarters of fatal injuries in both 2019/20 and the combined five-year period 2015/16-2019/20 were accounted for by just five different accident kinds (see figure 4 below). Falls from a height, being struck by a moving vehicle and being struck by a moving, including flying or falling, object continue as the three main causes of fatal injury, between them accounting for over half of all fatal injuries each year since at least 2001/02.

In 2019/20, 29 fatal injuries to workers were due to falls from a height, accounting for around a quarter of all worker deaths over the year, a similar proportion to the latest five years combined.

Main kinds of fatal accident for workers



Being struck by a moving vehicle accounted for 20 fatal injuries to workers in 2019/20, representing just under 20% of the total number of deaths over the year. This proportion has changed little in recent years.

Around 30% of fatal injuries in both 2019/20 and the five year-period 2015/16-2019/20, were to self-employed workers working mostly in Agriculture, forestry and fishing and Construction but also in other sectors including (but not restricted to) Manufacturing, and Administrative and support service activities (such as renting and leasing activities and services to buildings and landscape activities).

The full report can be found at:

<https://www.hse.gov.uk/statistics/pdf/fatalinjuries-20.pdf>



## Industry News



# Energy-saving Opportunities for Pig Farmers

Efficiently run livestock housing is key to productivity, health, welfare and, ultimately, the success of the industry. Proficiently balancing inputs and outputs places some businesses ahead of others and creates more resilience in navigating through the uncertainty of the future while we live through these unprecedented times.

In 2019, English pig producers were asked about their predicted investment into new buildings and technologies. Half of producers surveyed said they are likely to be capping investment into buildings at £50,000, mostly because of the known return in investment and the previously mentioned uncertainty of the industry. Producers do want to invest long term, with more than half keen to build a healthy and sustainable farm business to pass on to the next generation. For producers to have the confidence to invest and drive business improvement, they need reassurance that their investments will increase production efficiency, while also providing welfare and environmental improvements.

Making savings in running costs and inputs is not a new theory in business management plans, but is increasingly at the forefront of investment considerations, not only to streamline production and reduce running costs, but also to support the UK Government's requirement to reduce all greenhouse gas emissions to net zero by 2050.

GrowSave, a collaboration between AHDB and NFU Energy, is a knowledge exchange programme helping both farmers and growers save energy.



Until recently, the programme has been focused solely on horticulture, but as energy saving and management is clearly critical across wider AHDB sectors, the programme has now been expanded into the cereals, dairy, pork and potato sectors.

To date, the programme has helped horticultural businesses save energy and reduce their environmental impact, which, due to the volatility of energy prices over the last five years, coupled with the increased demand for year-round produce, have been significant drivers for businesses to carefully manage their energy consumption. Pig producers have similar pressures to meet consumer needs, with running costs, in particular electricity, driving the need for overall efficiency improvements.

GrowSave has already helped businesses recognise areas in which energy savings can be made. A market review and gap analysis have identified current practices and highlighted where changes could be implemented, either now, or in the future, to improve business performance and energy efficiencies, while reducing carbon emissions.

Discussions with pig producers and industry representatives dominated by the themes of slurry treatment, including cooling, LED lighting, automation, and data acquisition. Other themes that people are thinking about include the use and improvement of heating systems or climate control techniques, and the application of renewable energy, such as heat pumps, solar photovoltaics, or anaerobic digestion.



The technique of cooling slurry before it leaves the pig shed brings two principal benefits: ammonia suppression (most producers achieve reductions of 30–50%), and heat recovery. Which of these has the upper hand depends on the individual system. Installation of this technology is most efficient in new buildings but can be retrofitted.

Other slurry treatments, such as plasma reactors producing ammonium nitrate liquid fertiliser, are under development.

Now that energy-efficient LED lighting is widespread, specialist products with tailored spectral output are emerging. One supplier of such lighting, Unilight UK, claims that Danish studies on pigs recorded growth increase of 3–5%, or about a week, under LED lighting. In addition, sow lactation improves, piglets grow quicker, and weaning weight increases.

Data is commonly used to benchmark farm operations and often energy consumption as well. When looking to improve energy efficiency, this data should not be limited to the obvious areas such as energy consumption, temperature, on/off times, etc. To get the best value from data, it should be gathered and reported against all sensible metrics, such as feed requirements, fertility, weight gains, mortality, etc. By doing so, the full impacts of the changes that are made can be assessed and the right decisions made to gain maximum efficiencies in all aspects of production, together with using predictive analytics.

To find out more about the successes of GrowSave so far, visit the AHDB website: [ahdb.org.uk/growsave](http://ahdb.org.uk/growsave).



## Industry News

Image courtesy of Timmins Engineering and Construction

# Industry Comes Together for Farm Safety Week

This year marks the 8th year of Farm Safety Week which took place from 20 to 24 July 2020. Farm Safety Week has become a key focus in the farming calendar in the UK and Ireland, in which the Farm Safety Foundation brings attention to the number of serious incidents and fatal injuries in the industry as well as highlighting what is being done to address them.

The Farm Safety Foundation manages this annual campaign and works with key partners in five countries over five days with one overwhelming message – to take safety seriously. The week acts as another way of encouraging the industry to recognise the hazards of working in agriculture and related trades and the importance of looking after the physical & mental wellbeing of everyone in the industry each and every day, not just for Farm Safety Week.

This year, the campaign offered a timely reminder that farmers have been recognised as key workers and play an essential role in producing food for the nation, however agriculture still has the poorest safety record of any occupation in the UK. This cannot be ignored, needs to be addressed and must be improved.

The campaign focused on the launch of the HSE report, the impact of COVID-19, child safety on farms, the role of technology to reduce accidents, and transport and farm accidents, and overall aimed to:

- acknowledge the poor safety record in the industry but recognise that this is slowly improving;
- offer advice and guidance to support the physical and mental wellbeing of those working and living in the farming community especially post COVID19;
- encourage those in the industry to stop and think about their safety and wellbeing and that of their families whilst working and living on farms;
- underline good safety practices and share positive stories about the use of technology to improve safety on farms.

### Manager of Farm Safety Foundation, Stephanie Berkeley, commented:

“This has been a particularly challenging 2020 for all of us! It is encouraging that, over the past few months, farmers have been recognised as key workers that play an essential role in producing food for the country.

There are no borders when it comes to safety and this year’s Farm Safety Week 20-24 July saw partners in five countries\* over five days showing a united front in calling for the industry to take safety seriously each and every day, not just for Farm Safety Week. (\*Ireland, N. Ireland, England, Scotland and Wales)

Like any farmer scanning his fields for green shoots, we are doing the

same across the industry and we’re optimistic that a change is happening. There has been a 37.5% decrease in the number of agriculture workers losing their lives on our farms. Farmers are starting to make decisions that are in their broad self-interest and in the interest of staying safe and staying alive. Young farmers are coming into the industry with improved attitudes to working safely. More farmers are being open about looking after their physical and mental wellbeing and using technology, learning business skills and taking innovative steps to make their farm businesses safe, resilient and sustainable.

Farm Safety Week may be one week in the year but the Farm Safety Foundation is working all year round to educate, engage and communicate strong and relatable farm safety messages and deliver this change. We are very privileged to have this opportunity to work closely with the farm safety partnerships, health and safety organisations and the industry to drive safety forward.”

Read more about Farm Safety Week at:

<https://www.yellowwellies.org/category/farm-safety-week/>

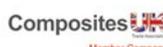


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## Industry News

### Be Safe, Don't Fall, Stay Alive!

The No Falls Foundation, the UK charity dedicated to preventing falls from height and helping people affected by the life-changing consequences of a fall, is urging everyone to ensure that height safety remains a priority despite the understandable pressures to kick-start the economy.

Figures published by the Health & Safety Executive (HSE) for 2019/20, show that falls from height remain the single biggest cause of fatalities in the workplace. In the 12 months to March 2020, 29 people died from a fall from height - on average one person every 13 days - and, according to the HSE, these figures almost certainly reflect fewer falls in February and March due to the impact of COVID-19.

Comments chair of the trustees, Peter Bennett OBE: "It's imperative that height safety is not compromised for the sake of productivity. In recent months we have witnessed unprecedented collaboration and mobilisation of all the stakeholders in industry - government, regulators, employers, trade associations, trade unions and employees - to fundamentally change behaviours to try and ensure that COVID-19 does not wreak devastation in the workplace."

"Moving forward, we need to harness and build upon that collaboration and sense of common cause, and apply it to that



commonplace, often unnoticed danger - working at height."

The Foundation, which has three objectives - raising awareness of the risks associated with working at height, researching the causes of falls and providing advice and support to those affected by a fall - is also asking anyone who has suffered a fall and experienced its consequences to make contact.

Explains charity manager, Hannah Williams: "We're looking for people who are willing to share their personal stories in a series of case studies on the Foundation's

website - anonymously if necessary - for the benefit of others. If anyone would like to contribute to the work of the charity in this way and help save lives by stopping falls, we would be delighted to hear from them."

The charity has also published the first issue of Saving Lives, an occasional e-newsletter for anyone involved - directly or indirectly - in the work at height sector. To sign up visit

[www.nofallsfoundation.org](http://www.nofallsfoundation.org)

which also includes an information resource hub and a section on how to get involved with the work of the Foundation.

The charity contributed to the first enquiry report of the All Party Parliamentary Group on Working at Height (APPG) and fully supports its six main recommendations, in particular the need to enhance RIDDOR reporting and to introduce an independent body to record near misses and accidents that do not qualify for RIDDOR. For a copy of the official report published by the APPG visit [www.workingatheightinfo](http://www.workingatheightinfo)

In common with the Foundation, the APPG seeks to understand the root causes of falls from height and propose effective, practical measures to reduce the number of serious injuries and fatalities as a result of a fall from height. The work and role of the Foundation is actively supported and championed by the eleven member organisations of the Access Industry Forum (AIF) - the forum for the principal trade associations and federations involved in working at height. Each organisation represents a different sector of the access industry and fosters and supports codes of good practice, equipment standards, training, education and knowledge.

[www.accessindustryforum.org.uk](http://www.accessindustryforum.org.uk)



**The Forum's mission is to encourage people to work safely and competently at height as required by the Work at Height Regulations (WAHR), using appropriate equipment with personnel professionally trained to industry-recognised standards.**



## Technical Update

Image courtesy of Briarwood

# Selecting the Correct Steel Grade: Part 2

The previous article introduced the concept of steel grade selection and explained about steel composition and how this will impact on its properties, in particular its ductility, fracture toughness and weldability. The structural engineer can ensure that the purchased steel meets the specific requirements of the building design by specifying the correct steel grade and also the steel sub-grade. The aim of this article is to show how this is achieved in practice for buildings designed to the structural Eurocodes.

## Steel grades and sub-grades

Structural steels are manufactured to tightly controlled processes according to a product standard and should be CE marked. When buying steel, it is important to specify the product standard, e.g. BS EN 10025, and to avoid any steel products that do not have the appropriate certification or where there is no mention of the product standard. BS EN 1993-1-1 contains a list of suitable steel grades for structural applications, such as beams and columns, along with the corresponding product standard for the steel. While other steel grades may, in theory, 'do the job', only steel grades listed in BS EN 1993-1-1 should be used for structural applications.

The name of the steel grade follows a simple classification system

comprising the product standard, the application type and nominal yield strength. For example, BS EN 10025 S355 means that the steel has been manufactured to BS EN 10025, it is a structural grade (the S means structural) and it has a nominal yield strength of 355 N/mm<sup>2</sup>. Specifying BS EN 10025 S355 when ordering steel is a good start, but is not sufficient, as it says nothing about the steel's fracture toughness. To this end, the designer must also specify the steel sub-grade as explained below.

The sub-grade, e.g. S355 J0, relates to the fracture toughness of the steel and, in particular its performance in the Charpy V-notch test under standard test conditions. For those who have never had the pleasure (or pain depending on personal preference) of metallurgy lab sessions at university, the Charpy apparatus comprises a pendulum that is swung at the metal test sample causing it to break at a carefully machined v-notch. Having broken the sample, the pendulum rises to a level corresponding to its remaining energy, thereby giving a measure of the energy absorbed by the sample. The greater the energy, the higher the fracture toughness, with 27 joules generally taken as the cut-off between ductile and brittle behaviour at a given temperature. In the example of S355 J0 the 'zero' simple means that at least 27 Joules is required to break the sample at 0°C in the standard Charpy test. By comparison, a JR steel achieves 27 Joules at 'room temperature' (20°C) while a J2 absorbs 27 Joules at -20°C.

## Brittle fracture

In practice, the susceptibility of a steel member or connection to brittle fracture depends on a number of factors including:

- The service temperature of the steel
- The thickness of the steel
- Any holes or changes in section
- Whether the steel is in tension or compression
- Whether the stress is uniform or not
- The rate of loading

## Service temperature

Steel can become brittle at low temperatures, as evidenced by the failure of some steel structures in very cold weather, so the minimum service temperature of the steel needs to be considered when selecting the steel sub-grade. For buildings, two basic conditions are considered: 'internal' and 'external'. In the UK, and for the purpose of sub-grade selection only, the minimum internal temperature is specified as -5°C, while the external temperature is specified as -15°C, so no further analysis is required to determine the temperature.



Image Courtesy of M D Anthony Ltd



Image Courtesy of A.C. Bacon Engineering Ltd

Care must be taken, however, when designing for cold climates or cold stores, where temperatures are likely to be lower than the standard values noted above. For agricultural buildings, especially those partially open to the external atmosphere, the structural engineer must decide whether to class the steelwork as internal or external, depending on the building's use and likely exposure to cold temperatures.

### Thickness

As a general rule, the thicker a steel element, the more susceptible it is likely to be to brittle fracture. For this reason, the old British Standard BS 5950-1 and, more recently, the Eurocodes specify the maximum allowable thickness for a given service temperature, sub-grade and detail. For hot-finished beam and column sections, this sets the limiting thickness of the flange.

### Holes and detailing

Any sudden changes in geometry (e.g. width or thickness) will result in a local stress concentration, which could act as the start point for a fracture. This includes cut edges and holes, so connections between members are a particular concern in this respect. Uneven stress distribution is also an issue, so welded connections to unstiffened flanges, for example, need extra care as the stress is not uniform across the width of the flange.

### Tension and compression

Brittle fracture only occurs in elements subject to tensile stress, so the state of stress in all parts of the structure needs to be understood. Columns, for example are almost always in compression (unless they are holding the building down in very strong winds) so brittle fracture is less of an issue than in bracing members and their connections. Beams subjected to bending action have one flange in tension while the other is in compression, so theoretically at least the tension flange should be checked. A more severe case would be the tension zone of a moment connection, e.g. the top portion of a rafter to column connection.

### Rate of loading

Normally ductile materials can fail in a brittle manner if subjected to sudden loading, such as an impact. Special care needs to be taken when designing structures such as barriers or crane stops, which can receive very high levels of dynamic loading in service.

## Engineering codes and guidance

The Eurocode that covers brittle fracture and sub-grade selection is BS EN 1993-1-10. At the heart of the design approach is a check that the maximum element thickness (e.g. flange thickness) does not exceed the limit specified in the Eurocode for a given sub-grade,

reference temperature and design stress level. Other factors such as detailing and rate of loading are accounted for by adjusting the reference temperature. Unfortunately this adjustment is rather complicated and unnecessarily onerous for simple building structures, so to assist engineers in the UK, a 'Published Document' PD 6695-1-10 is available as an alternative to the Eurocode method. The PD uses the Eurocode and UK National Annex as its starting point, but presents an alternative method for engineers in which the limiting thickness may simply be looked up in a table. Tables are presented for internal steelwork in buildings, external steelwork in buildings and also bridges.

The tables are generally easy to use and this method is certainly recommended over the Eurocode method. However, care is needed to ensure that the correct detailing conditions are selected. The following 'detail types' are included:

- Plain material
- Bolted
- Welded - moderate
- Welded - severe
- Welded - very severe

The difference between the welded categories depends on the stress distribution across the element, so an end plate in a pinned connection will generally be 'moderate', while an extended end plate in a moment resisting connection is 'very severe'. Further guidance on the use of PD 6695-1-10, including examples of detail types, is given in SCI publication ED007.

### Dr Martin Heywood RIDBA Technical Consultant

A specialist in the structural engineering of agricultural and industrial type steel framed buildings, Dr Martin Heywood, is the technical consultant for RIDBA members.

Martin represents RIDBA on the B/549 committee and the sector on B/525/1 and CB/203.

**For further information contact:  
Technical@ridba.org.uk**



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# Meeting Environmental Targets and Keeping Dairy Cows Happy and Healthy

The 2019 Clean Air Strategy will have far-reaching impacts on farm infrastructure. For agricultural engineers working with dairy farmers, ammonia emissions are a prime consideration as it is suggested that dairy cattle account for the highest proportion of ammonia emissions throughout UK farming, estimated at 28%.

Working to AHDB guidelines regarding best practice for dairy building design, Wolfenden launched their award-winning SUPA product range last year, designed specifically for the dairy sector and with a clear focus on cow health and wellbeing.

Structurally engineered with Wolfenden's unique Fortis reinforcement system, SupaStrong slats allow slurry to pass through rapidly and more efficiently. Comparisons show the diagonal slats to be 100% stronger than competitors' offerings. A class-leading 12 tonne axle load enables the slats to support just about any type of farm vehicle or machinery – helping to improve efficiency and productivity.



With 50% extra capacity, SupaDeep channelling provides superior slurry collection, meaning cleaner floors and more comfortable cattle housing, while beveled corners offer extra strength and hygiene and a smooth internal surface improves flow rate. Compared to more traditional methods of slurry channel construction, the SupaWide solution can save as much as 75% of labour time.

The combination of deep slurry channels and diagonal slats is particularly effective in minimising emissions. Richard Moody, Wolfenden's managing director, explains,

"Concrete can be used to create a precast channel with a depth of 1,500mm, meaning the distance between the slurry and the flooring above helps reduce the movement of air above the waste, while smooth internal walls – a feature of our SupaDeep channels – help improve slurry flow rate and allow for more efficient movement of waste over greater distances. While diagonal slats in agricultural concrete flooring are still a relatively new concept and farmers often do not realise how effective the diagonal can be in dispersing slurry, their use, when combined with robotic scrapers, can be highly efficient – reducing labour hours as well as meeting best practice advice from DEFRA."

Wolfenden are working with farmers across the UK. When Morris-Eyton and Son embarked on a major expansion project, Wolfenden's SUPA range was key. The family have been farming in Cumbria for over 300 years and Becksides Farm is a family-owned group with a diverse portfolio. Patrick Morris-Eyton explains the decision to double their dairy herd size,

"The Becksides herd is made up of home bred pedigree Holstein cows. Years of selective breeding have produced high type, high yield cattle and genomic testing allows us to be selective when choosing sires for AI, resulting in better quality, healthier cows. To maximise our investment, we decided to expand the herd and visited some of the best dairy facilities in the country to take advice to help us ensure the new facilities would be easy to use and efficient, with the welfare of the animals at the heart of the development."

Wolfenden were selected to design and supply the infrastructure necessary to ensure a slurry system that would reflect the ambitious expansion. Patrick continues,



SupaStrong diagonal slats with 12tonne axle loading

"We chose Wolfenden because they were able to assist with the design as well as the supply – their expertise was invaluable. One massive plus for us was the depth of Wolfenden's SUPA channels – the internal sizes, which are bigger than other suppliers' products, for the same cost. The design of Wolfenden's slats also allow them to have a higher weight carrying ability, which is very reassuring."

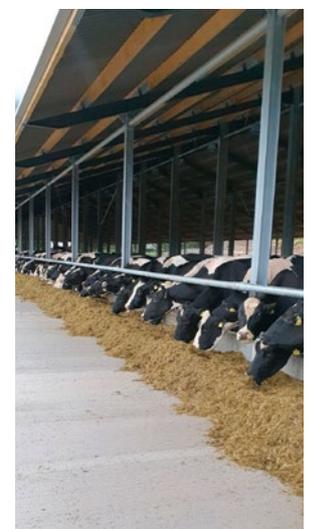
Supplying over 100 mixed sized channel and slat arrangements, this is one of Wolfenden's first projects where their new SUPA range has been specified, and the innovation of the range is proving its value to farms across the UK, improving cow health, farm efficiency and meeting environmental regulations.

For more information about Wolfenden's SUPA range, please contact:

T: **01282 844213**  
E: [jade@wolfendenconcreteltd.co.uk](mailto:jade@wolfendenconcreteltd.co.uk)  
W: <https://www.wolfendenconcreteltd.co.uk/>



SupaDeep slurry channels with intersections during installation



Becksides herd settling into their new cubicle shed



## R J Barrington Appoints New Managing Director



Herefordshire based R J Barrington Ltd, who specialises in bespoke and general sheet metal fabrications, announced last August the appointment of a new Managing Director John Lilly.

John has been with R J Barrington for the last 22 years working alongside the previous Managing Director and Owner Roger Barrington. John takes over this role at an exciting yet interesting

time with unusual floods hitting the UK and COVID-19 presenting a number of challenges to the businesses.

R J Barrington Ltd has been established in the manufacturing of Sheet Metal fabrication for over 40 years – we are a family owned company and we pride ourselves on providing high quality products and service at competitive prices.

Jan Barrington, Director of R J Barrington Ltd commented on the appointment “We have the confidence that as Managing Director John will lead the RJB Team forward, taking us into our 42nd year. We employed John 22 years ago and feel that he is now very much one of the Barrington family, the RJB team couldn't be in better hands, I am excited to see how the business thrives going forward into a new generation.”

The confidence, skill and loyalty of the highly experienced team at R J Barrington Ltd has helped the company grow from its humble origins in the late 1970's working from a shed to becoming a nationwide independent manufacturer and supplier of sheet metal fabrications. There are over a million R J Barrington Ltd fabrications on industrial, agricultural, and residential buildings all over the UK. Many of these can be found on structural buildings such as Forecourt Structures, Canopies, Carwash, Jetwash and Shop buildings throughout the UK.

As a company, we pride ourselves on our ability to offer a wide variety of fabricated sheet metal products. Our product range includes guttering, flashings, rainwater pipes, louvres, and vents to name a few. Our core principles remain the same today as at the outset, based on one basic principle – all orders, large or small, receive the same attention from enquiry stage to completion.

Commenting on his appointment, John says “I have worked for the Barrington family for two decades and more importantly alongside Roger for all those years, to be appointed Managing Director of RJB's is a great honour, I have admired Roger for many years working alongside him to create a company offering great products and service. I am supported by a fantastic team and I am excited to leading RJB's into its 42nd year of business. I look forward to generating new business and continuing to meet the requirements of our already established customers with the same 'can do' attitude that Roger always had.

Standing by the principle he set – all orders, large or small receive the same attention from enquiry stage to completion.”

To mark the occasion R J Barrington Ltd have launched a new website and introduced an updated logo – take a look at [www.rjbarringtonltd.co.uk](http://www.rjbarringtonltd.co.uk).



## Fibre Cement Profiled Sheeting Designed Specifically for the UK



Briarwood is the UK's leading supplier and manufacturer of fibre cement sheeting and roofing systems, with over 40 years expertise in providing fibre cement sheets to the agricultural and industrial markets.

As a British farming family-owned business, supporting the UK farming industry is at the heart of what they do. With that in mind, Briarwood has developed EUROSIX – a fibre cement profiled sheeting specifically designed to meet the demands of the UK climate. EUROSIX is manufactured at Briarwood's production facility using an innovative combination of materials to produce a fibre cement sheet purposefully designed for the British market, providing an exceptional level of quality and durability.

*"Our aim is to deliver a superior fibre cement profiled sheet, and EUROSIX does just that. It has been specifically designed to perform in the UK climate, and provides a long lasting, quality investment for our customers."*

**Oliver Janes, Director.**

### Highest Quality Standards

Briarwood has a reputation for supplying high quality products that offer durability, safety, and longevity, rewarding customers with an impressive return-on-investment.

They have taken every step to ensure that EUROSIX meets the most stringent quality and safety tests. EUROSIX fibre cement sheets are BBA approved, ISO 9001 certified and carry a CE mark. They are also covered by a 30 year guarantee.

### Extensive Stock Holding

Briarwood holds Europe's largest fibre cement stock allowing even the most ambitious project to be serviced with maximum efficiency. Controlling the manufacturing capacity ensures that unique orders can be managed easily with lead times kept to a minimum.

In addition to fibre cement, Briarwood provides an extensive range of building components, enabling buyers to benefit from the cost savings associated with using a single supplier and the efficiency of

receiving a single delivery. This extensive product range includes: Metal Profiled Sheets, GRP Rooflights, Timber Purlins, Steel Purlins and the UK's largest supply of PVC Rainwater Systems.

### Transport Network

Briarwood has the ability to deliver nationwide, using its own dedicated transport fleet. The fleet of specialist vehicles allows complete control of the supply chain providing distribution from factory to farms across the country. Carefully planned transport logistics means Briarwood has the capacity and flexibility to meet customers' needs and can provide a swift delivery service to anywhere in the UK. The specialist vehicles as well as the exceptionally trained delivery team enables delivery to even the most challenging of sites.



Contact us on **01934 641446** or visit [www.briarwoodproducts.co.uk](http://www.briarwoodproducts.co.uk).



## Give your Steel Fabrication Company that Competitive Edge by Utilising the Latest Software Technology

Steel fabrication and construction best practices in the 21st Century call for the utilisation of technology to stay ahead of the curve and remain both relevant and profitable in an ever more dynamic industry. The application of MRP type software in the steel fabrication and construction process is no longer a nouveau concept, but more rather a vital standard management practice. Software systems, such as STRUMIS serve the largest and smallest fabricators and construction companies alike across numerous market sectors including the agricultural, structural and equestrian markets and enable the steel fabricator to successfully manage their business and mitigate risk, ensuring transparency throughout each department, and safeguarding management of resources effectively during these challenging times.

STRUMIS Bi-Directional project links with partner systems like 3D CAD programs such as Tekla, Advance Steel and many others, enables steel fabrication and construction companies to make quick, informed decisions to minimise cost and disruption, by seeing real-time status for materials, project costs and manufacturing progress of parts and assemblies providing a project transparency - usually difficult and time consuming to achieve - which STRUMIS performs in a matter of seconds.

construction industry. With more than 30 years of experience, and 20,000 users in over 65 countries globally, STRUMIS solutions are developed utilising the very latest technology which future proofs our customers investment, provides remote working during these unprecedented times, and are well placed to help drive-up your efficiency, improve productivity, enable 100% traceability and ultimately assist with improved profitability.



**STRUMIS**

**Benefits:**

- Increase Productivity
- Save Time, Reduce Costs
- Real Time Traceability
- Streamline Workflow
- Maximise Material Efficiencies
- BIM Collaborative Communication
- Facilitating CE Marking

### The Future - Now

The continuous development and evolution of STRUMIS is a commitment to the steel fabrication and construction sector and STRUMIS customers. A rapid and progressive development drive ensure STRUMIS remains the global leader in proving steel fabricators with significant cost and time saving business benefits in-line with industry and customer expectations, after all, the direction of the STRUMIS MRP software program is driven solely by our end users who know best.

STRUMIS Version V10.4, released to market recently, contains many new and exciting features our customers and end users have demanded and we remain responsive to customer and industry needs to ensure the industry has the very best steel fabrication solution available providing that crucial competitive edge.

For more information on how STRUMIS can help your steel fabrication business please see [www.strumis.com](http://www.strumis.com) or contact [sales@strumis.com](mailto:sales@strumis.com) or telephone 01332 545800 we'd love to hear from you.

### From Estimating to Erection

The STRUMIS software program Budget Module automatically tracks all costs associated to a project from tender stage through to completion and hand-over enabling real-time cost comparison from estimate/tendering to actual project costs including all employee and process time along with steel, labour and plant hire costs, variations to contract, change order management and contract invoicing.

### Industry Leader

Adopting STRUMIS is acknowledged as a commitment to business excellence; this will attract new customers while also improving existing customer satisfaction.

STRUMIS LTD are a UK based, privately owned company, based in Derby and has a long history serving the steel fabrication and



## The Leader in the Field for Galvanizing Services

Joseph Ash Galvanizing is a UK leader of steel finishing services and a proud supplier to the agricultural industry. With a long heritage dating back to 1857, and eight plants in the UK (in Bilston, Bridgend, Chesterfield, Corby, Hull, Medway, Telford and Walsall) our services include galvanizing, spin galvanizing, shot blasting, powder coating and duplex coatings.

Our position as a steel finishing UK leader stems not only from our industry-leading levels of customer service, but also from an ethos of outstanding technical knowledge and additional services which include:

- Collection and delivery
- On-site storage facilities
- Passivation post galvanizing
- A range of different bath sizes and lifting capabilities
- Additional paperwork if requested
- The ability to powder coat aluminium as well as steel.

With a number of different bath sizes at the various plants (including one of the widest galvanizing baths in Europe at the Telford plant), everything from flooring to gates, railings to staircases, and structural sections to bridges can be treated.

Small specialist parts such as hinges, nuts and bolts can also be galvanized in our spin line galvanizing bath.

Joseph Ash Galvanizing also offers a one-stop-shop-service for shot blasting, galvanizing, powder coating and duplex coatings from our

Medway plant, with all services provided under one roof.

When it comes to corrosion protection, the dedicated workforce and large and modern HGV fleet enable us to provide the highest standards of galvanizing quality and service available.

For information about steel finishing services for the agriculture industry, please contact Joseph Ash Galvanizing today on **0121 504 2573** or visit the website at [www.josephash.co.uk](http://www.josephash.co.uk).



## Shortening the Supply Chain Post Brexit

2020 was already set to be a challenging year for many organisations with the uncertainty of Brexit and its potential to cause disruption throughout industry. Brexit would take a backseat with the global outbreak of COVID-19. For decades, many businesses have subscribed to the practice of sourcing the cheapest products worldwide. Coupled with just-in-time manufacturing some have kept their processes lean to push manufacturing costs down. These lean supply chains are also fragile and complex relying on many suppliers from across the globe. In a post Brexit / COVID-19 world there will be major challenges for many manufacturers as they scramble to try to shorten supply chains.

Eternit are a company that have been manufacturing at their site in Cambridgeshire, since 1929. They have always chosen to invest in the UK workforce and use locally quarried raw materials serving a UK market with semi-compressed fibre cement profiled sheeting specifically designed to meet the unique needs of the British climate. Short supply chains have come naturally to Eternit having the engineering expertise, the skilled workforce and the locally available natural resources required to produce high quality profiled sheeting to help British farmers.

Eternit have always believed that the best way to support the British farmer is to manufacture semi-compressed fibre cement profiled sheeting specifically designed for the UK. The Eternit manufacturing facility and technical experts are based in the UK meaning Eternit are uniquely placed to ensure continuity of supply during today's uncertain times. This has demonstrated that investing in a British infrastructure and UK workforce have been vital in the ability to give the long-term support that the British agricultural industry needs and deserves.

# Eternit

For more information on agricultural building design and materials please visit [www.eternit.co.uk](http://www.eternit.co.uk) or email [infouk@etexgroup.com](mailto:infouk@etexgroup.com).

Eternit semi-compressed fibre cement profiled sheeting has been manufactured in Great Britain for over 100 years for the British market and British weather conditions.



## Industry Maintains Payment Performance

Throughout the coronavirus pandemic, the Construction Leadership Council (CLC) has been clear that maintaining cash flow through the industry is critical. Its *Statement on Payment and Contracts* called on all businesses to continue to pay in accordance with agreed contractual terms, emphasising the need for a collaborative approach to be adopted across the industry in which all parties understand the implications of the current situation on their contracts and work together to find solutions.

Build UK updated its payment performance table on 31 July, with the latest results indicating that the largest companies in the sector have taken note and are playing their part. The latest results published under the *Duty to Report on Payment Practices and Performance* show that standards of payment performance have been upheld during extremely challenging circumstances, with Build UK Contractor members maintaining an average of 36 days to pay invoices during the first half of the year. On average, they now pay 92% of their invoices within 60 days and 75% within terms.

In response to feedback, Build UK's table has been expanded with more than 40 of the industry's largest companies, including clients, housebuilders and contractors, to provide a more coherent picture of payment practices within construction than ever before.

### Coronavirus Job Retention Scheme

From 1 September 2020, the level of grant available under the Coronavirus Job Retention Scheme has been reduced further, as the scheme continues to be wound down ahead of its close on 31 October 2020. Employers are now only be able to claim 70% of a furloughed employee's wages and have to contribute the remaining 10% to ensure employees continue to receive at least 80% of their wages, up to a maximum of £2,500. Employers are also required to pay National Insurance and pension contributions.

At the end of July, 76% of construction employers had accessed the scheme claiming almost £3 billion in grants, and the total cost of the scheme currently stands at £35.4 billion having supported 9.6 million jobs.

### Preparations for a No Deal Brexit

The CLC has written to Secretary of State for Business, Energy and Industrial Strategy Alok Sharma outlining the actions required by Government to help prepare the construction sector in the event of a no deal Brexit on 1 January 2021. The letter sets out three areas of concern – alignment with the EU on standards and regulations, the efficient movement of materials and products across the border and through ports, and a consistent supply of labour for the construction workforce – with a request for as much certainty and guidance from Government as possible.

### Apprenticeship Funding

Employers who hire a new apprentice before 31 January 2021 can apply for the following funding from 1 September as part of the Chancellor's Plan for Jobs:

- £2,000 for each new apprentice aged 16 to 24
- £1,500 for each new apprentice aged 25 and over.

Employers will need an apprenticeship service account and payments will be made in two equal instalments. 50% will be paid within 90 days of the apprentice's start date, with the remaining 50% paid after 365 days of the apprenticeship have been completed.



### Construction Talent Retention Scheme

The CLC has partnered with Government to create the 'Construction Talent Retention Scheme', a free online portal matching employers that have job opportunities with individuals looking for employment in the industry.

There is a growing pool of candidates and RIDBA members looking to recruit can register and upload their vacancies, including any apprenticeships. This is a great way for the sector to help itself and keep hold of the people and skills it has invested in.

### Flexible Working in Construction

With companies looking at how they return to the office whilst maintaining the benefits realised from working from home, a recent report has revealed that people will do an extra month's work each year and gain the equivalent of almost 26 days in time off if they maintain habits developed during coronavirus. An average of 84 minutes a day has been saved by not commuting to and from the office, which has been split almost evenly between work and leisure. As part of the Construction Leadership Council's (CLC) work on retaining people in the industry, Build UK is working with Timewise and four 'pioneer' Contractors to understand how we can introduce more flexible working arrangements into construction.

### Additional Support for Businesses

To relieve pressure on businesses adapting to new ways of working during coronavirus, there have been a number of temporary changes to legislation and other requirements, including:

- Extending deadlines for filing records at Companies House and introducing a new online service
- Allowing Companies House authentication codes to be sent to an active officer's home address
- Easements for Annual General Meetings (AGMs)
- Additional time to develop a rescue or restructuring plan to avoid insolvency
- A fast-track consent process to apply for extended working hours
- Extending deadlines for certain planning permissions
- Extending the temporary removal of VAT on PPE until 31 October 2020.



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## Frame Manufacturers

### Companies that manufacture steel or timber framed buildings

#### 3b Construction

South Street Depot, Port William, Newton Stewart, Dumfries & Galloway, DG8 9SH  
01988 700 000  
heather.vance@3bconstruction.co.uk  
www.3bconstruction.co.uk

#### A.C. Bacon Engineering Ltd

Norwich Road, Hingham, Norfolk, NR9 4LS  
01953 850 611  
steel@acbacon.co.uk  
www.acbacon.co.uk

#### A C Jackson Ltd

Buffer Depot, Rode Street, Tarporley, Cheshire, CW6 0EF  
01270 588 841  
info@acjackson.co.uk  
www.acjacksonltd.co.uk

#### A.J. Lowther & Son Ltd

The Factory, Whitchurch, Ross-on-Wye, Herefordshire, HR9 6DW  
01600 890 482  
info@ajlowther.co.uk  
www.ajlowther.co.uk

#### Adeilad Cladding Ltd

The Stores, Station Road, Llanwrda, Carmarthenshire, SA19 8EH  
01550 777 497  
adclad@live.co.uk  
www.adclad.co.uk

#### Alan Jukes Steel Framed Buildings Ltd

Cae Mawr, Llanfechain, Powys, SY22 6XH  
01691 828 094  
alan.jukes@alanjukes.co.uk  
www.alanjukes.co.uk

#### Andenor Ltd

74 Rowan Way, Balderton, Nottinghamshire, Newark, NG24 3BJ  
01623 490555  
stuart@andenor.com

#### Balsham (Buildings) Ltd

1-2 Rosemary House, Lanwades Business Park, Kennet, Newmarket, Suffolk, CB8 7PN  
01223 894 404  
mickg@balsham.uk.com  
www.balsham.uk.com

#### Bowie Lockwood Structures Ltd

Coombe Abbey Farm, Coombe Fields Road, Binley, Warwickshire, CV3 2SX  
0845 2572 343  
sales@bowielockwood.co.uk  
www.bowielockwood.co.uk

#### C.E. Davidson Ltd

South View, Fressingfield, Eye, Suffolk, IP21 5PJ  
01379 388 077  
charlie@cedavidson.co.uk

#### Chris Hodgson Engineering Ltd

Seven Acres, Hollocombe, Chulmleigh, Devon, EX18 7QH  
01769 520 422  
info@chrishodgson.biz  
www.chrishodgsonengineering.co.uk

#### Colley (Farm Buildings) Ltd

The Airfield, Cranswick Ind Est, Beverley Road Cranswick, Driffield, Yorkshire, YO25 9PF  
01430 810 210  
enquiries@colleyfarmbuildings.co.uk  
www.colleyfarmbuildings.co.uk

#### Collins Design & Build Ltd

Unit 5, Westwood Ind Est, Pontrilas, Hereford, HR2 0EL  
01981 240 682  
info@collinsdb.co.uk  
www.collinsdb.co.uk

#### Culm Valley Farm & Industrial Buildings Ltd

Bridge Street, Bridge Works, Uffculme, Devon, EX15 3AX  
01884 841 557  
culmvalleyfarmbuildings@btconnect.com  
www.culmvalleyfarmbuildings.co.uk

#### Cumbria Steel Fabrications Ltd

Unit 7, Brisco Burn Business Park, Longtown, Carlisle, Cumbria, CA6 5TR  
01228 711 318  
office@csfab.co.uk  
www.csfab.co.uk

#### D G Ashley Ltd

Highcroft, Aike, Driffield, East Yorkshire, YO25 9BG  
01377 270 525  
D6ash@aol.com

#### D Jones Welding

Llwynceilyn, Llandeilo, Carmarthenshire, SA19 6RY  
01558 822 381  
djoneswelding@hotmail.co.uk

#### DeVilte and Lear Ltd

Mill Lane, Roston, Ashbourne, Derbyshire, DE6 2EE  
01335 324 302  
info@devilleandlear.co.uk  
www.devilleandlear.co.uk

#### Dunn (Canadian - UK) Ltd

86 Spencer Road, Wigan, Lancashire, WN1 2QP  
01942 237 487  
dunnstorm650@aol.com  
www.dunncanadian.co.uk

#### Eagle Structural Ltd

Lordship Road, Great Carlton, Louth, Lincolnshire, LN11 8JS  
01507 450 081  
info@eagle-structural.co.uk  
www.eagle-structural.co.uk

#### East Anglia Steel Fabrications Ltd

Middle Drove, Marshland St James, Wisbech, Cambridgeshire, PE14 8JT  
01353 666 201  
james@eastangliasteelfabs.com

#### Ellerington Engineering Ltd

Knights Garth Farm, Bishop Burton, East Yorkshire, HU17 8QL  
01964 550810  
accounts@elleringtonengineering.co.uk  
www.elleringtonengineering.co.uk

#### Emmerson Doors Ltd

Enterprise Way, Sherburn in Elmet, Leeds, LS25 6NA  
01977 685 566  
sales@emmerson-doors.co.uk  
www.emmerson-doors.co.uk

#### Ernest Leng and Son

Friars Hill, Sinnington, York, Yorkshire, YO62 6SL  
01751 431 774  
leng@xlninternet.co.uk  
www.ernestleng.co.uk

#### F.W. Yelland & Son (Northlew) Ltd

Oljonna House, Station Road, Okehampton, Devon, EX20 3BN  
01409 221 445  
yellandaccounts@btconnect.com  
www.yelland-construction.co.uk

#### Farmplus Constructions Ltd

Shay Lane, Longridge, Preston, Lancashire, PR3 3BT  
01772 785 252  
Jim.Rogerson@farmplus.co.uk  
www.farmplus.co.uk

#### Fowler & Gilbert Ltd

Western Way, Market Drayton, Shropshire, TF9 3UY  
01606 738 738  
info@flgb.co.uk  
www.flgb.co.uk

#### George W Addison

Clayfolds, Aluah, Banff, Aberdeenshire, AB45 3UD  
01261 821 288  
stuartadd@btinternet.com

#### GLE Structurals Ltd

6A Station Street, Chatteris, Cambridgeshire, PE16 6NA  
07711 032 600  
mark.stone16@btinternet.com

#### Glendale Engineering (Milfield) Ltd

Berwick Road Industrial Estate, Wooler, Northumberland, NE71 6AH  
01668 281 464  
info@glendaleengineering.co.uk  
www.glendaleengineering.co.uk

#### GLT & Son Roofing Services Ltd

15a Bronynglyn, Bronwydd, Carmarthen, SA33 6JB  
07837 958 144  
gltroof@ymail.com

#### Hemmings Construction Ltd

Cockshoot Farm, Dean Road, Newnham, Gloucestershire, GL14 1HH  
01594 517 161  
martin.hemmings@yahoo.co.uk

#### Jaques Int Ltd

The Old Hatchery, Shobdon Court, Shobdon, Leominster, Herefordshire, HR6 9LZ  
01568 708644  
enquiries@jaquesint.com  
www.jaquesint.com

#### J I & M Davies & Son

Coed Rodyn Farm, Lixwm Road, Mold, Clwyd, CH7 5RQ  
01352 741 843  
daviescoed@aol.com

#### J. Wareing & Son (Wrea Green) Ltd

Whinbrick Works, Blackpool Road, Kirkham, Preston, Lancashire, PR4 2RJ  
01772 682 159  
sales@wareingbuildings.co.uk  
www.wareingbuildings.co.uk

#### Knapp Farm Buildings

Quarryknowe, Knapp, Inchtute, Perthshire, PH14 9SW  
01828 686 265  
alstairreid@knappfarmbuildings.co.uk  
www.knappfarmbuildings.co.uk

#### Harrison Eastoft Ltd

Verandah House, Eastoft, Scunthorpe, North Lincolnshire, DN17 4PN  
01724 798245  
andy@harrisoneastoft.co.uk

#### Lancashire Steel Buildings

Copthurst Farm, Barrowford Road, Higham, Nr Burnley, Lancashire, BB12 9AS  
01282 771748  
sales@lancashire-steelbuildings.co.uk  
http://lancashire-steelbuildings.co.uk/

**M.D. Anthony Ltd**

Unit 20, The Dock Business Park, Ely,  
Cambridgeshire, CB7 4GS  
01353 666 201  
sales@mdanthony.com  
www.mdanthony.com

**Magna Buildings Ltd**

Blackpitt Farm, Oddington, Moreton in Marsh,  
Gloucestershire, GL56 0XW  
01451 831 855  
general@magnabuild.com  
www.magnabuild.co.uk

**Mervyn Rose Engineering Ltd T/A Rose Engineering**

Paradise Farm, Bagber, Sturminster Newton,  
Dorset, DT10 2HB  
01258 472 866  
info@rose-engineering.co.uk  
www.rose-engineering.co.uk

**Michael Mudd Ltd**

Park View, Marthwaite, Sedbergh, Cumbria, LA10  
5HS  
01539 620 704  
info@michaelmudd.co.uk  
www.michaelmudd.co.uk

**Minshall Construction (UK) Ltd**

Unit 1 Bert Smith Way, Adderley Road,  
Market Drayton, Shropshire, TF9 3SN  
01630 657 647  
info@minshallconstruction.com  
www.minshallconstruction.com

**Morspan Construction Ltd**

Llancayo Farm, Usk, Monmouthshire,  
P15 1HY  
01291 672334  
enquiries@morspan.co.uk  
www.morspan.com

**Norman & Gray Ltd**

Lilac Cottage, Malton Road, Pickering,  
North Yorkshire, YO18 8EA  
01751 472 812  
phil@pnorman.co.uk  
www.pnorman.co.uk

**North Lincs Structures Ltd**

1 Bessemer Way, Sawcliffe Industrial Estate,  
Scunthorpe, Lincolnshire, DN15 8XE  
01724 855 512  
enquiries@northlincsstructures.com  
www.northlincsstructures.com

**Northern Structures Ltd**

Amble Industrial Estate, Amble, Northumberland,  
NE65 0PE  
01665 710 746  
anthony.nelson@northernstructures.co.uk  
www.northernstructures.co.uk

**Northwest Industrial Services Ltd**

East View, Fleetwood Road, Greenhalgh, Preston,  
Lancashire, PR4 3ZA  
01995 670196  
stev.butler@talktalk.net

**P McKenna's Agricultural Service Ltd**

Esh Winning Industrial Estate, West Terrace,  
Esh Winning, Durham, DH7 9PT  
0191 373 3187  
pmckenna\_agri\_servis@hotmail.com

**Paul Huxley Construction Ltd**

Unit 25 Rednal Industrial Estate, West Felton,  
Oswestry, Shropshire, SY11 4HS  
01691 610083  
sales@paulhuxleyconstruction.co.uk  
www.paulhuxleyconstruction.co.uk

**Powell & Co. Construction Ltd**

Longmoor, Shirleath, Kingsland, Herefordshire,  
HR6 9RG  
01568 708819  
sales@powellbuildings.com  
www.powellbuildings.com

**Preston Steel Structures**

Ryecroft, Newby Clapham, Nr Lancaster,  
Lancashire, LA2 8JD  
01524 251 542  
info@prestonsteelstructures.co.uk  
www.prestonsteelstructures.co.uk

**R E Buildings Ltd**

Spout House, Bay Horse, Lancaster, Lancashire,  
LA2 9DE  
01524 792 247  
sales@rebuildings.co.uk  
www.rebuildings.co.uk

**R J Doak & Sons Ltd**

Northfaulds, Lanark, Lanarkshire, ML11 7SA  
01555 661 425  
rjdoakltd@gmail.com  
www.doakco.com

**RLH Welding & Fabrications Ltd**

The Workshops, 32 Ford House Road, Newent,  
Gloucester, GL18 1LQ  
01531 828761  
info@rlhwelding.co.uk  
www.rlhwelding.co.uk

**RM Gibbons Ltd**

Stuarts Farm, Whiteleys Lane, Latham, Ormskirk,  
L40 6HF  
01695 50053  
gibbonsroger@aol.com

**Robinson Structures Ltd**

Eagle Park Industrial, Alfreton Road, Derby,  
Derbyshire, DE21 4AE  
01332 574 711  
sales@robinsons.com  
www.robinsons.com

**Ron Whitfield Engineers Ltd**

Manorfield, Fridaythorpe, Driffield, Yorkshire,  
YO25 9RT  
01377 288 263  
gwhitfield72@gmail.com

**RWHB Ltd**

Belston Cottage, Sinclairston, Cumnock, Ayrshire,  
KA18 2RU  
01290 700 073  
enquiries@rwhb.co.uk  
www.rwhb.co.uk

**S & A Fabrications Ltd**

Harmire Enterprise Park, Barnard Castle,  
County Durham, DL12 8EH  
01833 690 379  
fabs@s-and-a.co.uk  
www.s-and-a.co.uk

**S. Schofield Steel Fabrications Ltd**

Cookson's Yard Beverley, Carr Lane, Hambleton,  
Lancashire, FY6 9BB  
01253 702 806  
info@schofieldsteel.co.uk  
www.schofieldsteel.co.uk

**Severn Fabrications Ltd**

Unit 3, Maesbury Mill, Industrial Park, Oswestry,  
Shropshire, SY10 8BB  
01691 653 506  
info@severnfabrications.co.uk  
www.severn-fabrications.co.uk

**Shufflebottom Ltd**

Cross Hands Business Park, Cross Hands, Llanelli,  
Carmarthenshire, SA14 6RE  
01269 831 831  
alex@shufflebottom.co.uk  
www.shufflebottom.co.uk

**Skinner's Engineering Ltd**

First Business Park, Holsworthy Industrial Estate,  
Dobles Lane, Holsworthy, EX22 6HN  
01409 254 430  
skinnerengineeringltd@gmail.com  
www.skinnerengineering.co.uk

**Smith Contracts Scotland Ltd**

Lawersbridge Farm, Mauchline, Ayrshire, KA5 6EU  
01290 559358  
enquiries@smithcontractsscotland.com  
www.smithcontractsscotland.com

**South West Steel Construction Ltd**

Holsworthy Industrial Estate, Holsworthy,  
Devon, EX22 6ER  
01409 253 211  
info@southweststeelconstruction.co.uk  
www.southweststeelconstruction.co.uk

**Steel Fabricators (Wales) Ltd**

3 Nantyglyn, Cwmann, Lampeter, Dyfed,  
SA48 8JT  
01570 493 253  
enquiries@steelfabwales.co.uk  
www.steelfabwales.co.uk

**Steeltek Structural Steel Ltd**

Unit 4-6 Mallard Industrial Park,  
Charles Street Horbury, Wakefield, Yorkshire,  
WF4 5FH  
01924 283 355  
Neil.Fox@steeltek.co.uk  
www.steeltek.co.uk

**Supercraft Structures Ltd**

Shobdon Airfield, Shobdon, Near Leominster,  
Herefordshire, HR6 9NR  
01568 708 456  
info@supercraftltd.co.uk  
www.supercraftltd.co.uk

**T & M Buildings Ltd**

16 Town Park, Torrington, Devon, EX38 7AQ  
01805 623 555  
tim.tandmbuildings@gmail.com  
www.tandmbuildings-devon.co.uk

**T & P Metcalfe & Sons Ltd**

Forgewood House, Wray Road, Wennington,  
Lancaster, Lancashire, LA2 8NN  
01524 222 230  
Info@tpmetcalfe.co.uk  
www.tpmetcalfe.co.uk

**Tilke Engineering Ltd**

Lyndale, Bellhouse Lane, Anslow,  
Burton-on-Trent, Staffordshire, DE13 9PA  
01283 563 756  
craig@tilkeengineering.co.uk  
www.tilkeengineering.co.uk

**Timmins Engineering and Construction Ltd**

Innovation Works, Caenby Hall Business Park,  
Caenby Corner, Market Rasen, Lincolnshire,  
LN8 2BU  
01673 878800  
info@timminsagricultural.co.uk  
www.timminsagricultural.co.uk

**Titan Steel Ltd**

Kirkton, Kinellar, Aberdeen, AB21 0SB  
01224 791 178  
info@titansteel.co.uk  
www.titansteel.co.uk

**United Products Ltd**

Evenwood Industrial Estate, Copeland Road,  
Evenwood, County Durham, DL14 9SF  
01388 834 295  
Michael.Hammond@cagroup.ltd.uk  
www.united-products.co.uk

**W E Phillips and Sons Ltd**

Unit 3, Ironbridge Industrial Estate,  
Gittisham, Honiton, Devon, EX14 3AN  
info@wephillipsandsons.co.uk  
www.wephillipsandsons.co.uk

**W H Ricketts & Sons**

Forge Works, Ffynnon Gynydd,  
Glasbury on Wye, Powys, HR3 5LX  
01497 847 250  
info@whrickettsandsons.co.uk

**Webcox Engineering Ltd**

Harris Rd, Calne, Wiltshire, SN11 9PT  
01249 813 225  
sales@webcox.co.uk

**Wilson Construction Ltd**

East Stobswood Farm Cottages,  
Widdrington, Morpeth, Northumberland,  
NE61 3AY  
01670 791 404  
wilsonconstruction@hotmail.co.uk  
http://wilsonconstruction.co.uk/

**Worman Construction Ltd**

Beachley House, Beach Road, St. Brides, Newport,  
Gwent, NP10 8SH  
01633 681 710  
worman.constructionltd@btinternet.com  
www.worman-construction.co.uk

**Yorkshire Steel Buildings (Holdings) Ltd**

Aiskew Bank Farm, Back Lane, Bedale, Aiskew,  
Yorkshire, DL8 1AU  
01677 425324  
info@yorkshiresteelbuildings.co.uk  
www.yorkshiresteelbuildings.co.uk

## Supplier Members

Companies that manufacture or supply products related to the rural and industrial buildings industry

### A Steadman & Son

Warnell, Welton, Carlisle, Cumbria, CA5 7HH  
01697 478 277  
info@steadmans.co.uk  
www.steadmans.co.uk

### Acorus Rural Property Services Ltd

Old Market Office, Risbygate Street,  
Bury St Edmunds, Suffolk, IP33 3AA  
01284 753271  
mike.bamforth@acorus.co.uk  
www.acorus.co.uk

### AJN Steelstock Ltd

Ickneild Way, Kentford, Newmarket, Suffolk,  
CB8 7QT  
01638 555500  
sales@ajnsteelstock.co.uk  
www.ajnsteelstock.co.uk

### Albion Sections Ltd

2 Albion Road, West Bromwich, West Midlands,  
B70 8BD  
01215 531 877  
tom.hughes@albionsections.co.uk  
www.albionsections.co.uk

### Ayrshire Metals

Royal Oak Way, Daventry, Northamptonshire,  
NW11 8NR  
01327 300990  
sales@ayrshire.co.uk  
www.ayrshire.co.uk

### Astromezz Ltd

Unit A6, Precision Business Centre, 100 Masons  
Road, Stratford-Upon-Avon, Warwickshire, CV37  
9NU  
01789 263 555  
sales@astromezz.co.uk  
www.astromezz.co.uk

### Briarwood Products Ltd

Briarwood Business Park, Commerce Way, Walrow  
Industrial Estate, Highbridge, Somerset, TA9 4AG  
01934 641 446  
norman.morter@briarwoodproducts.co.uk  
www.briarwoodproducts.co.uk

### Cembrit Ltd

Studio 39, Thames Innovation Centre,  
2 Veridion Way, Erith, Kent, DA18 4AL  
0208 320 1184  
ged.ferris@cembrit.co.uk  
www.cembrit.co.uk

### DPL Steel Buildings Ltd

Hatfield Barns, Saxby Road, Melton Mowbray,  
Leicestershire, LE14 4RZ  
01664 566 119  
Peter@dplsteelbuildings.co.uk  
www.dplsteelbuildings.co.uk

### Eternit Ltd

Wellington Road, Burton upon Trent, Staffordshire,  
DE14 2AP  
01283 501555  
infouk@etexgroup.com  
www.eternit.co.uk

### Farmsmart Events Ltd

Killington Hall Farm, Killington, Kirkby Lonsdale,  
Carnforth, Lancashire, LA6 2HA  
015396 20255  
andy@farm-smart.co.uk  
www.farm-smart.co.uk

### Filon Products Ltd

Unit 3, Ring Road, Zone 2, Burntwood Business  
Park, Burntwood, Staffordshire, WS7 3JQ  
01543 687300  
markwilcox@filonproducts.co.uk  
www.filon.co.uk

### Hadley Group

123 West Bromwich Street, Oldbury,  
West Midlands, B69 3AZ  
0121 555 1342  
brian.cartwright@hadleygroup.com  
www.hadleygroup.co.uk

### Hereford Galvanizers Ltd

Westfields Trading Estate, Hereford, Herefordshire,  
HR4 9NS  
01432 267 664  
PeterS@hereford.galvanizers.co.uk  
www.galvanizers.co.uk

### Hornsey Steels Ltd

Riverlea, Bedstone Road, Shropshire, SY7 0AQ  
01547 530419  
info@hornseysteels.co.uk  
www.roofing-sheets.co.uk

### Huck Nets (U.K.) Ltd

Gore Cross Business Park, Corbin Way, Dorset,  
DT6 3UX  
01308 425 100  
dave.collins@hucknetting.co.uk  
www.huck-net.co.uk

### IAE

Mossfield Road, Adderley Green, Longton,  
Stoke-on-Trent, Staffordshire, ST3 5BW  
01782 339 320  
lee.scragg@iae.co.uk  
www.iae.co.uk

### IN Fabrications Ltd

Unit 11, Talbot Way, Adderley Road Industrial  
Estate, Market Drayton, Shropshire, TF9 3SJ  
ian@infabrications.co.uk

### James E. Smith (Timber) Ltd

Soho Pool Way Park Road, Hockley, Birmingham,  
B18 5JA  
0121 5232 261  
dave@jestimber.co.uk  
www.jestimber.co.uk

### Joseph Ash Galvanizing

The Alcora Building 2, Mucklow Hill, Halesowen,  
Worcestershire, B62 8DG  
0121 504 2560  
stevenh@josephash.co.uk  
www.josephash.co.uk

### Kaltenbach Ltd

3 Caxton Park, Caxton Road, Bedford, MK41 0TY  
01234 213 201  
d.wilkins@kaltenbach.co.uk  
www.kaltenbach.co.uk

### Kingspan Insulated Panels Ltd

Greenfield Business Park 2, Greenfield, Holywell,  
Flintshire, CH8 7G  
01352 716 100  
paul.grimshaw@kingspan.com  
www.kingspanpanels.co.uk

### MDS Industries Ltd

Booth Street, Smethwick, Birmingham, B66 2PF  
0121 565 0022  
enquiries@mdsind.co.uk  
www.mdsind.co.uk

### Premier Sealant Ltd

Mercia Way, Foxhill Industrial Park, Scunthorpe,  
Lincolnshire, DN15 8RE  
01724 864 100  
sales@premseal.co.uk  
www.premseal.co.uk

### R J Barrington Ltd

Clinton Road, Leominster, Herefordshire, HR6 0RJ  
01568 612101  
sales@rjbarringtonltd.co.uk  
www.rjbarringtonltd.co.uk

### RNT Tanks & Silos Ltd

Unit 8 Drove Road, Gamlingay, Sandy,  
Bedfordshire, SG19 2HX  
01767 654 916  
ashley.gurney@rnttanks.com  
www.rnttanks.com

### Steel Connections (NW) Ltd

19 Ellerbeck Road, Thornton Cleveleys, Blackpool,  
Lancashire, FY5 1DH  
07425 414631  
john@steelconnections.co.uk  
www.steel-connections.co.uk

### StruMIS Ltd

Truro House, Derby, Derbyshire, DE21 6LY  
01332 545 800  
s.watson@strumis.com  
www.strumis.com

### United Roofing Products

Longbridge Meadow Industrial Estate,  
Cullompton, Devon, EX15 1BT  
01884 839 302  
lukeevans@unitedroofingproducts.com  
www.unitedroofingproducts.com

### Wedge Group Galvanizing Ltd

Stafford Street, Willenhall, West Midlands,  
WV13 1RZ  
01902 600 704  
Claire.Jones@wedge-galv.co.uk  
www.wedge-galv.co.uk

### Wolfenden Concrete Ltd

Eden Works, Colne Road, Kelbrook, Lancashire,  
BB18 6SY  
01282 844 213  
info@wolfendenconcreteltd.co.uk  
www.wolfendenconcreteltd.co.uk

## Contractor Members

Companies that work on site, groundworkers, steel erectors, cladders and general contractors

### Curtis Engineering Frome Ltd

Curtis House, Manor Road, Marston Trading  
Estate, Frome, Somerset, BA11 4BH  
01373 462 126  
sales@curtisengineering.co.uk  
www.curtisengineering.co.uk

### Fair Buildings Ltd

36 Rose Street, Tullibody, Clackmannanshire,  
Scotland, FK10 2SZ  
07796 764 438  
Gareth@fairbuildingsltd.com  
www.fairbuildingsltd.com

### Hilro Consulting Ltd

The Outhouse, Yewden Farm, Mill End,  
Hambleden, Oxfordshire, RG9 6RJ  
01491 571 770  
info@hilroconstruction.co.uk  
www.hilroconstruction.co.uk

### I. Bailey Steel Buildings Ltd

81, Burton Road, Derby DE1 1TJ  
01332 650757  
www.ibaileysteelbuildings.co.uk

### Industrial Building Solutions Ltd

64 Azura Close, Woolbridge Industrial Park,  
Wimborne, Dorset, BH21 6SZ  
01202 822 337  
info@indbs.co.uk  
www.indbs.co.uk

### J.D. Richmond and Son Ltd

46, Parsonage Road, Horsham, West Sussex,  
RH12 4AN  
01403 266 124  
richmond.46@btinternet.com

### JOHNSTRUCT Ltd

The Stables, Nether Hall, Moreton, Essex, CM5 0JA  
01277 890 595  
info@johnstruct.co.uk  
www.johnstruct.co.uk

### Key Projects Ltd

Unit 5, Smallbrook Farm, Hereford, Herefordshire,  
HR2 9TP  
01981 250672/ 07584 102970  
info@keyprojects.co.uk

### Key Projects Ltd

Unit 5, Smallbrook Farm, Hereford, Herefordshire, HR2 9TP  
01981 250672/ 07584 102970  
info@keyprojectsltd.co.uk  
www.keyprojectsltd.co.uk

### LEEP Buildings Ltd

8 Barrow Close, Marlborough, Wiltshire, SN8 2BD  
01672 513587  
leepbuildings@outlook.com

### Leith Hill Plant Ltd

Oakwood Mill Farm, Stane Street, Ockley, Dorking, Surrey, RH5 5LX  
01306 628 412  
info@lhpl.co.uk  
www.lhpl.co.uk

### P. Phillips Contractors Ltd

Bumble Cottage, 6 Hilltop, Tillington, Petworth, West Sussex, GU28 9AQ  
01798 343 392  
pphillipscontractorsltd@gmail.com  
www.ppcontractorsltd.co.uk

### Re-Cladding UK Ltd

Works, Unit 4, Building 9, Preese Hall Farm Weeton, Near Kirkham, Lancashire, PR4 3HT  
07980 897 000  
sales@recladdinguk.com  
www.recladdinguk.co.uk

### Redwing Structures (Marlow) Ltd

Willow Cottage, Spurgrove Lane, Frieth, Oxon, RG9 6PA  
01494 880857  
david@redwingmarlow.co.uk  
www.redwingmarlow.co.uk

### Scotts of Whittington Ltd

Great Whittington, Tyne and Wear, Newcastle Upon Tyne, NE19 2HP  
01434 672 288  
office@scottsofwhittington.co.uk

### Southcon (Kingstone) Ltd

Gooses Foot Business Park, Kingstone, Hereford, Herefordshire, HR2 9HY  
01981 251 251  
sales@southconkingstone.co.uk  
www.southconkingstone.co.uk

### Steel Build Masters Ltd

Pig Lane, Bishop's Stortford, Hertfordshire, CM22 7PA  
0800 368 9100  
sales@steelbuildmasters.co.uk  
www.steelbuildmasters.co.uk

## Affiliate Members

Individuals or companies that are allied to the rural and industrial design and building industry, most likely offering a consultancy service

### A.C.P. (Concrete) Ltd

Wood Lane Business Centre, Uttoxeter, Staffordshire, ST14 8JP  
01889 598 660  
sales@acp-concrete.co.uk  
www.acp-concrete.co.uk

### Blue Dice Solutions Ltd

Denham Marina, 100 Acres, Sanderson Road, Uxbridge, Middlesex, UB8 1NB  
07877 092 117  
dpayne@bluedicesolutions.co.uk  
www.bluedicesolutions.co.uk

### Carter Jonas

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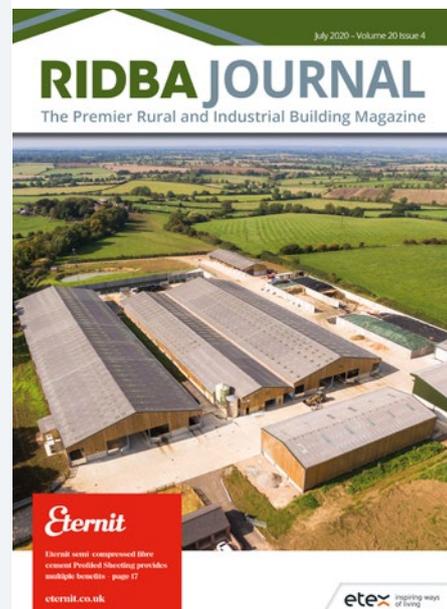
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